Faculty of Engineering & Technology

Offshore Petroleum Technology

Information :

Course Code :	PE 506	**Level :**	Undergraduate	**Course Hours :**	3.00- Hours

Department : Department of Petroleum Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	Mohsen Gad Elkarim Elnoby Mohamed	8

Area Of Study :

Develop knowledge about Offshore Platforms, offshore leasing, drilling, well completions, production facilities, pipelines, and servicing.
Train to demonstrate factors that influence selection of platforms for field development projects
Develop skills to understand Separation Process.

Description :

An introduction to the development of oil and gas fields offshore, including offshore leasing, drilling, well completions, production facilities, pipelines, and servicing. Subsea systems, and deep water developments are also included.

Course outcomes :

a.Knowledge and Understanding: :	
1 -	List Platform types based on what the platform is selected.
2 -	Select the difference between manned and unmanned platform.
3 -	Illustrate offshore production Facility.
4 -	Explain Separation process.
b.Intellectual Skills: :	
1 -	Choose criteria to select a suitable Platform.
2 -	Select separation vessel shape and types
3 -	Demonstrate control platforms with different method
4 -	Solve problems with limited data.
c.Professional and Practical Skills: :	
1 -	Perform control on surface and subsurface through platform.
2 -	Differentiate practically among Platform types.
3 -	Practice on how to operate production storage process.

d.General and Transferable Skills: :	
1 -	Work coherently and successfully as a part of a team in projects.
2 -	Make a successful report clearly on well performance.
3 -	Develop the report writing skill and presentation skills.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to the development of oil and gas fields offshore	6	3	3
Platform types	12	9	3
Offshore leasing	14	8	6
Well completions, production facilities Pipelines, and servicing.	12	9	3
Subsea Production Systems	12	9	3
Separation Process	7	4	3
Separator application	6	3	3

Teaching And Learning Methodologies :

Interactive Lecturing
Discussion
Problem solving
Experiential Learning

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignment	20.00		
Final Exam	40.00		
Mid- Exam I	30.00		
Report	10.00		